

Figure 6. The effect of the initial concentration of the monomer on the polymerization of methyl methacrylate initiated by BuLi . Polymerization conditions were as described in Figure 1. The reaction was stopped at various times by addition of methanol. The amount of polymer obtained was determined gravimetrically after precipitation in excess methanol. The results are shown in Figure 6. The polymerization rate increases with increasing initial concentration of the monomer, and the molecular weight of the polymer also increases. This is expected since the number of active centers is constant for a given amount of initiator.

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